SHARPIN, Semen Andreyevich; VITVITSKIY, M., red.; BURKATOVSKAYA, TS., tekhn. red.

[Tables for calculating the wages of workers and office employees for vacation time or compensation for unused leave; revised to take into consideration the change in the price scale and substitution of the new currency] Tablitsy alia ischislenia srednego zarabotka rabochikh i sluzhashchikh za vremia otpuska ili kompensatsii za neispol'zovannyi otpusk; pererabotany s uchetom izmeneniia masshtabe tsen i zamenoi obrashchaiushchikhsia deneg izmeneniia masshtabe tsen i zamenoi obrashchaiushchikhsia deneg novymi den'gami. L'vov, knizhno-zhurnal'noe izd-vo, 1961. 142 p. (MIRA 14:9)

(Wages--Tables and ready reckoners)

SUKHOMLINA, Z.I.; VITVITSKIY, M. [Vitvits'kyi, M.], red.; DOROSHENKO, M., red.; NEDOVIZ, S., tekhn. red.

[Useful advice] Knyzhkovo-zhurnal'ne vyd-vo, 1961. 182 p. (MIRA 14:10)

(Cookery) (house furnishings)

KARPENKO, G.V., red.; VITVITSKIY, M., red.

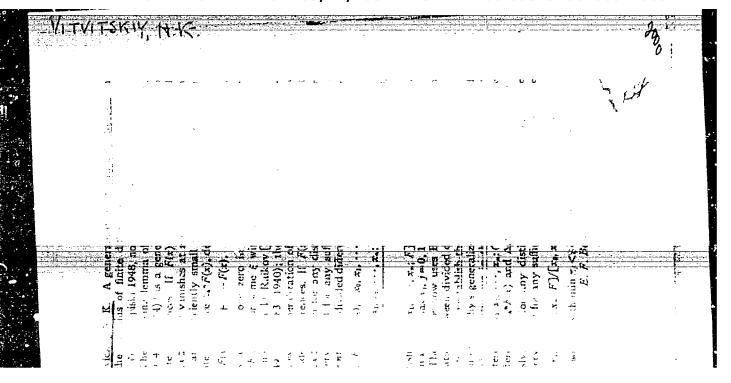
[Corrosion fatigue of matals; collection of reports]
Korrozionnaia ustalosu mataltou; sbornik dokladov.
L'yov, Kameniar, 1964. 234 p. (MIRA 18:11)

1. Vsesoyuznoye sovesh hamiye po korrozionnoy ustalosti metallov, Lvov, 1962. 2. Chlenekorrespondent AN Ukr.SSR i Institut mashinovedeniya i avtomatiki AN Ukr.SSR (for Karpenko).

VITVITSKIY, N.K., Cand Tech Sci -- (diss) "Approximate method determining the frequencies of natural bending, torsion, and joint oscillations of girders of changing cross-section."

Tomok, 1959, 12 pp (Min of Railway The USSR. Len Order of Lenin Inst of Engineers of Railroad Transport im Acadamician V.N. Obratsov) 120 copies (KL, 28-59, 126)

- 47 -



Source: Mathematical Reviews, Tol 11 No. 1

VITVITSKIY, N.K.

Approximate method for determining frequencies of natural bending, torsional, and joint vibration of bars with variable cross-sections.

Trudy TEIIZHT 25:229-256 156. (MIRA 13:10)

1. Kafedra matematiki Tomskogo elektromekhanicheskogo instituta inzhenerov zheleznodorozhnogo transporta. (Vibration)

VITVITSKIY, V. M., Cand Med Sci (diss) -- "The antimicrobal and therapeutic properties of combinations of certain antibiotics". Khar'kov, 1960. 12 pp (Khar'kov State Med Inst), 200 copies (KL, No 14, 1960, 136)

VITVITSKIY, N.K.

Determining the frequency of natural bending vibrations of beams beyond the elasticity boundary in the presence of plasticity zones. Trudy TEIIZHT 34:103-120 (MIRA 16:8)

VITVITSKIY, P.M. [Vytvyts'kyi, P.M.]; LEONOV, M.Ya.

Dislocation with an elliptical hollow. Dop.AN URSR no.3: 314-317 '60. (MIRA 13:7)

1. Institut mashinovedeniya i avtomatiki AN USSR. Predstavleno akademikom AN USSR G.N. Savinym [H.M. Savinym].

(Dislocations in crystals)

VITUYTSKIY, P.M.

29227

S/198/61/007/005/007/015 D274/D303

10.7600

AUTHORS: Vytvyts'kyy, P.M., and Leonov, M.Ya., (L'viv)

TITLE: On the fracture of a plate having a crack

PERIODICAL: Prykladna mekhanika, v. 7, no. 5, 1961, 516 - 520

TEXT: An infinite plate with a crack of length 21 (see Fig.) is under stresses, normal to the crack. Fracture occurs at the value σ_{∞} of stress. It is assumed that the maximum normal stresses do not exceed a certain fixed value (the limit strength of the material): $\sigma_{\max} \leq \sigma_{ls}; \qquad (1)$

Hooke's law applies; if a stress-strain state occurs which does not comply with linear theory, nor with condition (1), then breaches (regions of weakened bonds) appear in the body; the effect of these breaches depends on the critical distance $\delta_{\rm cr}$. For an ideal brittle

(amorphou**)** body, δ_{cr} is found from

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\$/198/61/007/005/007/015 \$274/\$303

On the fracture on a plate ...

$$\delta_{\rm cr} = \frac{2T}{\sigma_{\ell s}},\tag{2}$$

T being the surface energy of the material. For various materials, whose fracture accompanied by microplastic deformations, the quantity $\delta_{\rm cr}$ can be experimentally determined. In the above model, the breaches always occur (notwithstanding very small $\sigma_{\rm co}$), hence the fracture (crack) is enlarged (see Fig.), and

$$X_{y}(x, \pm 0) = 0; Y_{y}(x, \pm 0) = \begin{cases} 0, & /x/<\ell; \\ \sigma_{\ell B}, & \ell \le /x/ \le L. \end{cases}$$
 (3)

The length 2L of the enlarged fracture is unknown; it has to be determined in accordance with (1). This problem is solved by N.I. Muskhelishvili's method (Ref. 2: Nekotoryye osnovnyye zadachi matematicheskoy teorii uprugosti, AN SSSR, 1954). After computations, one obtains

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S/198/61/007/005/007/015 D274/D303

On the fracture of a plate ...

$$L = l \sec \frac{\pi \sigma_{\infty}}{2\sigma_{LB}}.$$
 (15)

Formulas for the stresses in the plate are derived, in particular, on the real axis, for L $\ll/x/<\!\!<\!\infty$, one obtains

$$Y_{y} = \sigma_{\infty} - \frac{2\sigma_{\pi} \tau_{s}}{\pi} \operatorname{arctg} \frac{\sqrt{L^{2} - l^{2}}}{l^{2} - x^{2} - x\sqrt{x^{2} - L^{2}}};$$

$$X_{x} = -\frac{2\sigma_{\pi} \tau_{s}}{\pi} \operatorname{arctg} \frac{l\sqrt{L^{2} - l^{2}}}{-x^{2} - x\sqrt{x^{2} - L^{2}}}; \quad X_{y} = 0.$$
(17)

For the quantity δ , which denotes the distance traversed by the points $(\pm \ell$, +0) and $(+\ell$, -0) of opposite surfaces of the breach as a result of the deformation, one obtains

$$\delta = -\frac{8!}{\pi E} \sigma_{\ell S} \ln \cos \frac{\pi \sigma_{\infty}'}{2\sigma_{\ell S}}.$$
 (18)

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On the fracture of a plate ...

By the adopted model, these opposite surfaces will no longer interact if $\delta > \delta_{\rm cr}$, hence the fracture increases. Thus, the critical stress $\sigma_{\rm cr}$ is such a value of $\sigma_{\rm co}$ that $\delta = \delta_{\rm cr}$. Hence (18) yields

$$\sigma'_{cr} = \frac{2}{\pi} \sigma_{\ell s} \arccos \exp \left(-\frac{\pi E \delta_{cr}}{8 \ell \sigma_{\ell s}}\right).$$
 (19)

For ocr ols,

$$\sigma_{cr} = \sqrt{\frac{E\sigma_{\ell,s}\sigma_{cr}}{\pi\ell}}.$$
 (20)

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For brittle materials, one obtains from (2) and (20) Griffith's formula:

$$\sigma_{\rm cr} = \sqrt{\frac{2ET}{\pi \ell}}$$
 (21)

For $l \rightarrow 0$, formula (21) yields infinitely large σ_{cr} ; this disad-

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On the fracture of a plate ...

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vantage is not shared by formula (19) which yields (for $l \to 0$), $\sigma_{\rm cr} \to \sigma_{ls}$, i.e. the strength of plate with "zero" crack equals the strength of a faultless plate. Griffith's results are also unsuitable for very small cracks. Formulas (19) and (20) can also be used for fracture processes accompanied by microplastic deformations. Thereby, $\sigma_{ls}\delta_{\rm cr}$ (denoted by A) is the work expended on the formation of two surfaces of same area during the development of a breach. Hence formulas (19) and (20) are written

$$\sigma_{\rm cr} = \frac{2}{\pi} \, \sigma_{\ell_{\rm B}} \, \arccos \, \exp \, \left(-\frac{\pi \, \rm EA}{8 \ell \, \sigma_{\ell_{\rm B}}^2} \right), \tag{22}$$

$$\sigma_{\rm cr} = \sqrt{\frac{EA}{\pi \ell}} \qquad (\sigma_{\rm cr} \ll \sigma_{\ell_{\rm B}}).$$
 (23)

Formula (22), proposed by Orowan, remains valid for any $\sigma_{\rm or}$, even if $\sigma_{\rm cr}$ is of the same order as $\sigma_{\rm g}$. There are 1 figure and 5 refecard 5/6

29227

On the fracture of a plate ...

S/198/61/007/005/007/015 D274/D303

rences: 3 Soviet-bloc and 2 non-Soviet-bloc. The references to English-language publications read as follows: A.A. Griffith, Phenomena of rupture and flow in solids, Trans. Roy. Soc., A 221, London, 1920; E. Orowan, Energy criteria of fracture, Welding J., March 1955.

ASSOCIATION: Instytut mashynosnavstva i avtomatyky AN USSk (Institute of the Science of Machines and Automation AS Ukr-SSk)

SUBMITTED: June 10, 1960

Fig.

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5/813/62/000/001/001/008

E001/E183

A SECTION OF THE PROPERTY OF THE PARTY OF TH

AUTHORS:

Vitvitskiy, P.M., and Leonov, M.Ya.

TITLE:

Slip bands in the heterogeneous deformation of

a plate

SOURCE:

Akademiya nauk Ukrayins koyi RSR. Instytut mashynoznavstva i avtomatyky, L'viv. Voprosy mekhaniki

real nogo tverdogo tela. no. 1. Kiev, 1962, 13-28.

TEXT: The paper is a continuation of previous work (M.Ya. Leonov, N.Yu. Shvayko, Zhurnal prikladnoy meknaniki i tekhnicheskoy fiziki, no.2, 1961. P.M. Vitvitskiy, M.Ya. Leonov, DAN URSR, no.3, 1960. P.M. Vitvitskiy, M.Ya. Leonov, Frikladna mekhanika, v.7, no.5, 1961). The problem of the elasto-plastic deformation of a body may be reduced to the linearly elastic problem of a material containing a distribution of dislocations. In accordance with this concept, the plane stress state is investigated in a thin plate containing a slit or a circular hole and subjected to a stress system which at infinity becomes Y = p (tensile), X = X = 0. At a certain stress slip bands

Card 1/2

Slip bands in the heterogeneous ...

S/813/62/000/001/001/000 E081/E183

develop; the Muskhelishvili stress functions appropriate to the region surrounding a circular hole are quoted, and the modified functions applicable in the presence of distributed dislocations are derived. The problem of the elasto-plastic deformation of a plate with a slit involves determining the distribution of dislocations, and leads to an integral equation the solution of which gives the conditions for the formation of slip bands. Initially, the slip bands are parallel with the slit, but later, bands develop which are inclined at an angle of about 50° to the slit; these findings agree with observations on soft steel plate. An analogous treatment is applied to a plate containing a hole. In this case a polynomial solution is found for the integral equation, and by limiting the number of terms in the polynomial the solution is evaluated approximately. There are 6 figures and 1 table.

SUBMITTED: June 10, 1961

Card 2/2

34375

s/207/62/000/001/016/018 B104/B108

10,7100

Vitvitskiy, P. M., Leonov, M. Ya. (L'vov)

AUTHORS:

TITLE:

Extension beyond the elastic limit of a plate with circular

opening

PERIODICAL:

Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 1,

1962, 109 - 117

TEXT: Conditions are laid down under which the deformation of a body beyond the elastic limit can be studied with the linear elastic theory of the deformation of a body with linear dislocations distributed according to a certain law. The distribution of these dislocations and the dimensions of the region in which they occur are determined from the given forces of the finelastic bonds and from the condition of conservation of elasticity outside the inelastic deformations. On the basis of such a model the stress in a thin infinitely long plate with a circular opening (Fig. 1) subjected to forces p is studied. Stress and strain in the complex plane which result only from the load are determined by the

functions Card (1/1)

S/207/62/000/001/016/018 B104/B108

Extension beyond the elastic limit...

beyond the elastic limit... B104/B105
$$\frac{1}{12} \left(p^{0}(z) = \frac{1}{4} p \left(1 + 2 \frac{R^{2}}{z^{2}} \right) \right). \quad \psi^{0}(z) = \frac{1}{2} p \left(1 + \frac{R^{2}}{z^{2}} + 3 \frac{R^{4}}{z^{4}} \right) \quad (1.1).$$

That part of the stress produced by the dislocations is determined in such a way that in the regions of inelastic deformation the sum of the stresses produced by p and those produced by the dislocations fulfills the $Y_{y}^{\circ}(x, 0) + |Y_{y}|^{s}(x, 0) = G_{H} = Gonst \quad (R < |x| < |L|)$

Some auxiliary problems about linear dislocations in the plane that are necessary for the present problem are investigated with reference to a paper by N. I. Muskhelishvili (Nekotoriye osnovyye zadachi matematicheskoy paper by M. 1. Muskinell British (New York). The integral equation teorii uprugosti, Izd-vo AN SSSR, 1954). The integral equation

The integral
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for the density $\mu(t)$ of the dislocation distribution is solved in the variables

Card 2/8

Extension beyond the elastic limit... $\frac{S/207/62/000/001/016/098}{B104/B108}$ $\frac{z^2}{R^2}, \quad \eta = \frac{t^3}{R^3}$ by approximation: $\frac{\mu_0(\eta) \approx \frac{\sigma_n}{D} \sum_{n=0}^{M} \alpha_n \eta^n}{\sum_{n=0}^{M} \alpha_n \eta^n} \quad (1 \le \eta \le \alpha)$ confidence of the length of the region of inelastic deformation. The radius R is calculated as a function (Fig. 3). Finally, the critical on the English-language publication reads as follows: Griffith A. A.;

Separation beyond the elastic limit... $\frac{S/207/62/000/001/016/098}{R^2}$ $\frac{f^2}{R^2}, \quad \eta = \frac{t^3}{R^2}$ $\frac{f^2}{R^2} = \alpha, \quad \mu(t) = \mu(R V \eta) = \mu_0(\eta)$ dependence of the length of the region of inelastic deformation. The radius R is calculated as a function (Fig. 3). Finally, the critical load the English-language publication reads as follows: Griffith A. A.;

Separation beyond the elastic limit... $\frac{S/207/62/000/001/016/098}{R^2}$

VITVITSKIN 8.M.

33751 S/021/62/000/002/006/010 D299/D304

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Vytvyts'kyy, P. M. and Leonov, M. Ya.

TITLE:

AUTHORS:

Brittle fracture of plate with circular hole

PERIODICAL: Akademiya nauk UkrRSR. Dopovidi. no. 2, 1962, 174-178

TEXT: An infinite plate with a circular hole of radius R is subjected to stresses which create (at infinity) the uni-axial stresses state $Y_y^{\infty} = p$, $X_x^{\infty} = X_y^{\infty} = 0$. It is assumed that the material of the plate corresponds to the simplified model of a brittle body 1960, p. 16). According to this model, no. 1, VINITI AS SSSR, whose sides are attracted towards each other as long as the distance between them does not exceed a certain value of (which is consiched, the interaction between the sides ceases and local fracture of the displacements, normal to the cracks, has a discontinuity Card 1/7

Brittle fracture of ...

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 $\lambda(x)$. The discontinuities are related to linear dislocations. Muskhelishvili's function for a linear dislocation is

$$\oint_{1}(z) = \Psi_{1}(z) = D \frac{\lambda}{z}$$
(4)

where $D = \frac{G}{\pi(1+2C)}$; G is the shear modulus, $\mathcal{H} = 3-4V$ (for plane strain) and $\mathcal{H} = (3-V)/(1+V)$ - i'or plane stress. In the case of a pair of dislocations λ and $-\lambda$ which pass through the points t and -t of the real axis, one obtains

$$\oint_{2}(z) = -2D \frac{\lambda t}{z^{2} - t^{2}}, \quad \Psi_{2}(z) = -4D \frac{\lambda t z^{2}}{(z^{2} - t^{2})^{2}}$$
 (5)

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Brittle fracture of ...

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Further, Muskhelishvili's function for a pair of linear dislocations in a plane with a hole is derived. The discontinuity is ex-

$$v(x,+0) - v(x,-0) = \lambda(x) = \int_{L}^{x} \mu(t)dt \quad (R \leq |x| \leq L)$$
 (8)

The function $\mu(t) = \lambda'(t)$ is called the density-distribution of dislocations. After a change of variables (in particular $t^2/R^2 = \eta$, $\mu(t) = \mu(RV\pi) = \mu_0(\eta)$), one obtains the integral equation for μ_0 :

 $\int_{0}^{\infty} \left[\frac{1}{\eta - \xi} + \frac{1}{\xi \eta} + \frac{\xi - \eta}{2\xi (\xi \eta - 1)^{2}} + \frac{4(\eta - 1)(\xi - 1)}{(\xi \eta - 1)^{3}} \right] \mu_{0}(\eta) d\eta +$

Card 3/7

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Brittle fracture of ...

S/021/62/000/002/006/010 D299/D304

$$+\frac{p}{4D}\left(2+\frac{1}{\xi}+\frac{3}{\xi^2}\right)=\frac{\sigma_0}{2D}, \qquad 1\leqslant \xi \leqslant \alpha \tag{9}$$

The approximate solution of this equation is sought in the form of a polynomial with unknown coefficients \mathbf{a}_n , viz :

$$\mu_{0}(\eta) \approx \frac{\sigma_{0}}{D} \sum_{n=0}^{m} a_{n} \eta^{n} \quad (1 \leqslant \eta \leqslant \omega)$$
(10)

Substituting (10) in (9), one obtains

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Brittle fracture of ...

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$$\sum_{n=0}^{m} a_{n} J_{n}(\alpha, \xi) + \frac{p}{\sigma_{0}} f(\xi) \approx \frac{1}{2} \qquad (1 \leqslant \xi \leqslant \infty)$$
(11)

For (11) to hold, it is necessary that

$$\sum_{n=0}^{m} \alpha_n \alpha^n = 0 \tag{13}$$

The quantity α , by which the length of the crack can be found: $1 = R(\sqrt{\alpha} - 1)$, is determined by (13). The coefficients a_n are found by means of a system of (m+1) equations. This system in conjunction Card 5/7

THE RESIDENCE OF THE PARTY OF T

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Brittle fracture of ...

with (13), yields p/σ_0 (σ_0 being the constant stress between the sides of the cracks which attract each other). Thus, an approximate relationship is obtained between the length of the crack, the load and the dislocation density-distribution. The maximum distance between the crack sides is

$$\lambda(R) = \frac{\sigma_0}{D} R \sum_{n=0}^{m} \frac{a_n}{2n+1} \left[1 - \left(\frac{L}{R}\right)^{2n+1} \right]$$
(14)

Plots of 1/R versus p/ σ_0 and of λ (R)D/R σ_0 versus p/ σ_0 are shown. These graphs are used for determining the critical load p_k at which fracture occurs. Depending on δ D/R σ_0 , the critical load varies between $\frac{1}{3}\sigma_0 \leqslant p_k \leqslant \sigma_0$. With a given constant δ , $(\delta$ D/ $\sigma_0)$ $p_k \Rightarrow \frac{1}{3}\sigma_0$ with Card 6/7

Brittle fracture of ...

large R, and $p_k \rightarrow \sigma_0$, with R \rightarrow 0. There are 3 figures and 5 Sovietbloc references.

ASSOCIATION: Instytut mashynoznavstva ta avtomatyky AN UkrRSR (Institute of the Science of Machines and Automation of

the AS UkrRSR)

THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN

PRESENTED: by Academician H. M. Savin of the AS UkrRSR

SUBMITTED: June 22, 1961

Card 7/7

5/879/62/000/000/028/088 D234/D308

AUTHORS: Leonov, M. Ya., Vitvitskiy, P. M. and Yarema, S. Ya.

(L'vov)

Theoretical and experimental investigation of elastic-plas-TITLE: tic deformations during the extension of a plate with a

SOURCE: Teoriya plastin i obolochek; trudy II Vsesoyuznoy konferentsii, L'vov, 15-21 sentyabrya 1961 g. Klev, Izd-vo

AN USSR, 1962, 196-199'

TEXT: The elastic-plastic deformation is reduced to the deformation of an ideal elastic body whose displacements are discontinuous on certain surfaces. With the aid of this model the authors solve the problem of an infinite plate with a slot, subject to forces perpendicular to the slot. N. I. Muskhelishvili's method is used. The critical load is found to be V(1-2/) multiplied by critical stress. The experiments, carried out on steel plates, gave results coinciding with the theoretical data in the initial stages except in the incubation period. There are 2 figures. Card 1/1 2 11:

5/020/63/148/003/010/037 B104/B186

AUTHORS:

Leonov, M. Ya., Academician AS KirSSR, Vitvitskiy, P. M.,

Yarema, S. Ya.

TITLE:

Gliding strips occurring due to the stretching of plates

having crack-like concentrators

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 3, 1963, 541 - 544

TEXT: Thin plates (200-300 mm) made of soft sheet steel that has crack-like stress concentrators in a direction perpendicular to the concentrators produced by cutters are stretched. The gliding strips could be observed by eye. Four stages of deformation were estbalished: 1) A stage of incubation with no plastic deformation occurring; 2) the stage, which is characteristic of the first appearance of mat spots at the ends of the cracks; 3) the stage, which is characteristic of the appearance of gliding strips, 20 - 40 mm long, that start from the end of the crack and make an angle of 47 - 54 with the axis of the concentrators; 4) the stage, which is characteristic of the simultaneous appearance of gliding strips at many spots combining into a gliding band. The results of an analytic investigation of the stages using Card 1/2

Gliding strips occurring ...

s/020/63/148/003/010/037 B104/B186

the method developed by N. I. Muskhelishvili (Nekotoryye osnovnyye zadachi matematicheskoy teorii uprugosti - Some basic problems of the mathematical theory of elasticity, M., 1954) show satisfactory agreement with experiment if an ideal plastic-elastic material is assumed. Deviations between the angle of the gliding bands and the load at which these occur are attributed to the finiteness of the width of these bands, and to the solidification of the deformed material in the vicinity of the crack ends. There are 4 figuræ.

SUBMITTED: February 5, 1962

Card 2/2

VITVITSKIY, V.M.; GODUN, V.M.; KIMEL'BLAT, M.A.

Change in the sensitivity of dysentery agents to some antibiotics in Ivano-Frankovsk between 1958 and 1963. Antibiotiki 9 no.12:1108-1110 D '64. (MIRA 18:7)

1. Kafedra mikrobiologii (zav. - prof. T.I.Ivanova) Ivano-Frankovskogo meditsinskogo instituta i Ivano-Frankovskaya infektsionnaya klinicheskaya bol'nitsa (glavnyy vrach Ye.I.Gulyayevskaya).

VITVITSKIY, V.M.

Sensitivity of bacteria from the Proteus group to various antiblotics and their combinations. Antibiotiki 9 no.8: 744-748 Ag 164. (MIRA 18:3)

l. Kafedra mikrobiologii (zav. - pref. T.I. Ivanova) Ivano-Frankovskogo meditsinskogo instituta.

VITVITSKIY, V.M.

Adaptation of Proteus cultures to some antibiotics and their combinations. Antibiotiki 10 no. 10:908-913 0 '65.

(MIRA 18:12)

1. Kafedra mikrobiologii (zav. - prof. T.I. Ivanova) Ivano-Frankovskogo meditsinskogo instituta. Submitted Nov. 2, 1964.

VITVITSKIY, Ye.V., inzh. (g.L'vov)

Tractor-mounted shrub cutter. Put'i put.khoz. 5 no.6:24-25
(MIRA 14:8)

Je '61.

(Railroads--Equipment and supplies)

VITYAZEV.P., inzh.

| Maintenance sercicing of automobiles on conveyer lines. Avt.transp.
| Mira 14:7)
| Avt.transp.
| Avt.transp.
| Avt.transp.
| Mira 14:7)
| Avt.transp.
| A

CHEPURIN, V., shofer (Moskva); LAVRENT'YEV, A., avtolyubitel' (Syktyvkar);

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

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GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. po mekhanizatsii;

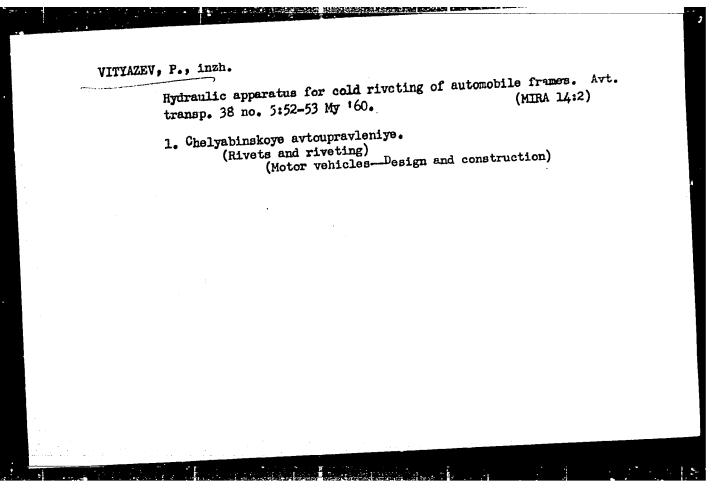
GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh. inzh.

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GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, A., inzh.

GRIGORYAN, V., shofer (Toilisi); VASIL'YEV, shofer (Toilisi); VASIL'YEV, shofer (Toilisi); VASIL'YEV, shof



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N.W.; BARDIN, I.P.; VASYUTIN, V.F.; KINYATEKA, V.A.; GORDONOV,

L.Sh.; DOLGOPOLOV, K.V.; ZEHKOYA, Z.A.; HEHCHINOV, V.S.; OHRUCHEV, V.V.; RYAZANTSEV, S.N.; SOKOLOV, A.V.; STEPANOV, P.M.;

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POKSHISHEVSKIY, V.V., prof.; SOLOV'YEVA, M.G., dotsent;

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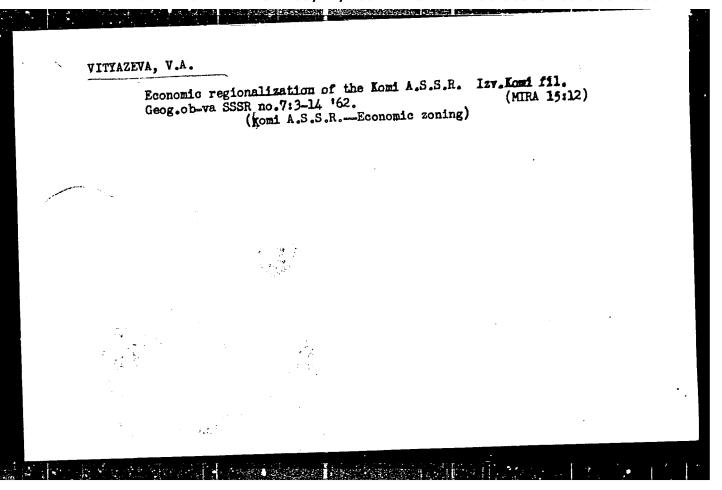
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l. Ten'kinskaya kompleksnaya ekspeditsiya Severo-Vostochnogo geologicheskogo upravleniya i Severo-Vostochnyy kompleksnyy nauchno-issledovatel'skiy institut Sibirskogo otdeleriya AN SSSR. Predstavleno akademikom I.P. Gerasimovym. (Jack London Lake region—Glacial epoch)

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Distribution of chromium oxide in the products of treatment of ilmenite. Izv. TPI 126:98-101 '64. (MIRA 18:7)

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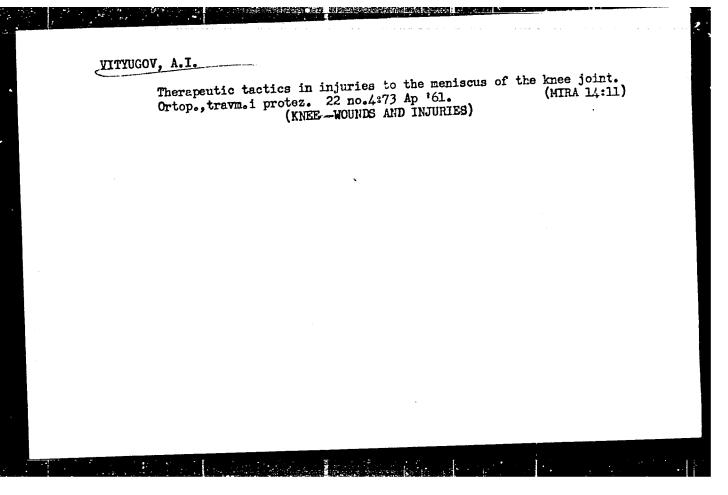
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Nodulizing iron ore concentrates with cast iron filings.

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1. Tomskiy politekhnicheskiy institut.



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(KNEE, wds. & inj.

meniscus, partial & complete removal in sheep & dogs (Rus))

VITYUGOV, I.A.

New signs of demages to the meniscus of the knee joint.

Ortop.trevm. i protez. 19 no.4:60 JL-Ag '58 (MIRA 11:11)

1. Iz kliniki travmntologii i ortopedii (zav. - prof. L.G. Shkol'nikov) Stalinskogo Gosudarstvennogo instituta dlya spetsializatsii i usovershenstvovaniya vrachey im. V.I Lenina.

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(HEART, wds. & inj.
case reports (Rus))
(PERICARDIUM, wds. & inj.
same)
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Significance of arthropneumography in diagnosis of injuries of menisci of the knee joint. [with summary in English]. Vest. rent. i rad. 33 no.5:49-55 S-0 158 (MIRA 11:11)

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(RNEE wds. & inj. meniscal, diag. value of arthroneumography (Rus))

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Some cases of osteochondritis disseques (Koenig's disease). Ortrop. travm.i protez. 21 no.3:57-59 Mr '60. (MIRA 14:3)

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(OSTEOCHONDROSIS)

VITYUGOV, I.A. Accidents among machine couplers. Ortop.travm. i protez. no.3:71 My-Je 155. (MLRA 8:10)

1. Iz kliniki ortopedii i travmatologii (zav.prof. L.G.Shkol'nikov) Stalinskogo (Kemerovskoy obl.) instituta usovershenstvovaniya vrachey dir.prof. A.N.Araviiskiy) (AGRICULTURE,

accid. in tractor trailer workers)
(ACCIDENTS,
in tractors trailer workers)

VITYUGIN, V.M.; ATKHIN, G.F.

Wood pitch as a binder for coal briquetting. Gidroliz.i lesokhim.prom.
(MIRA 12:3)

12 no.2:7-9 '59.

1. Tonskiy politekhnicheskiy institut.
(Wood tar) (Briquets (Fuel))

SHKOL'NIKOV, L.G., prof. (Novokuznetsk, Kemerovskoy oblasti, prospekt Metallurgov, d.34, kv.27); VITYUGOV, I.A., kand. med. nauk; ROSTOVSKAYA, M.P.

Surgical treatment of ruptures of the cruciform ligaments of the knee joint. Ortop., travm. i protez. 25 no.6:16-21 Je '64.

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1. Iz kafedry travmatologii i ortopedii (zav. - prof. L.C. Shkol'nikov) Novokuznetskogo instituta usovershenstvovaniya vrachey (dir. - dotsent G.L. Starkov).

VITYUK, A.N.

Approximate integration of systems of ordinary differential equations based on S.A. Chaplygin's method. Dif. urav. 1 no.7:923-928 Jl '65. (MIRA 18:8)

1. Odesskiy gosudarstvennyy universitet imeni I.I. Mechnikova.

L 00315-66 EWT(d) IJP(c)
ACCESSION NR: AP5019616

UR/0376/65/001/007/0923/0928

AUTHOR: Vityuk, A. N.

TITLE: On the approximate integration of systems of ordinary differential equations by the Chaplygin method 16,44,55

SOURCE: Differentsial'nyye uravneniya, v. 1. no. 7, 1965, 923-928

TOPIC TAGS: ordinary differential equation, approximation method, Cauchy problem

ABSTRACT: A method is proposed for the construction of an approximate solution for the system

 $y_{l}' = f_{l}(y) \equiv f_{l}(x, y_{1}, y_{2}, ..., y_{n}), \quad (l = 1, 2, ..., n)$ (1)

under the initial conditions

 $y_l(x_l) = y_{l0} \quad (2)$

where y_{i0} are arbitrary constants and $x_i \in [a, b]$ Sequences for the solution are constructed on the basis of a theorem due to Chaplygin on differential inequalities for the equation y' = f(x, y), and they are proved to converge uniformly to the

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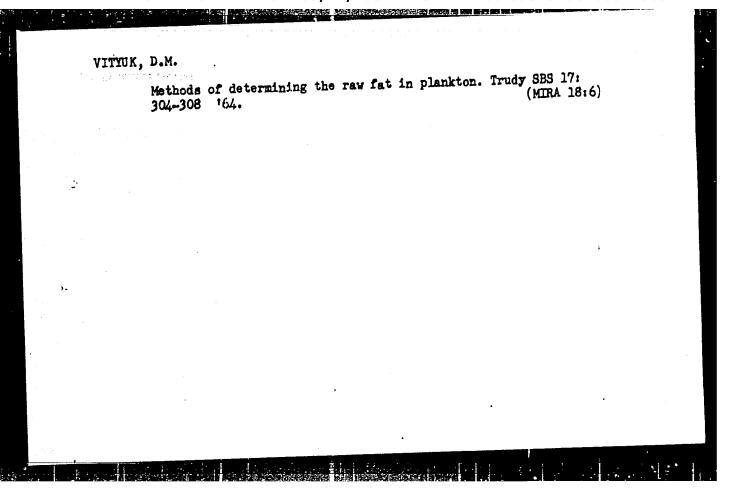
VITYUK, A.N. [Vitiuk, O.N.]

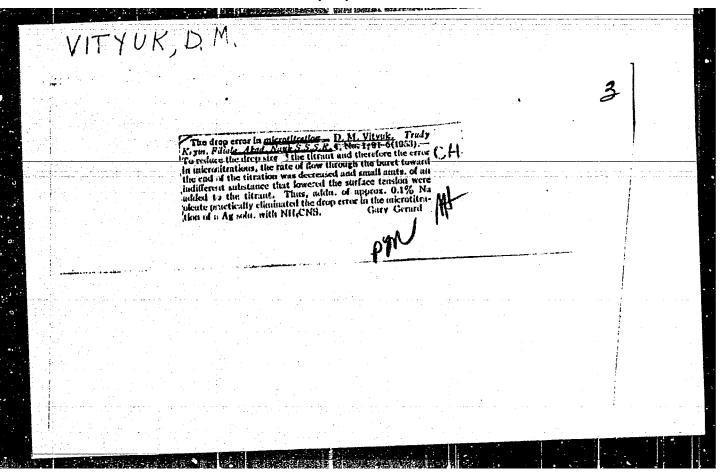
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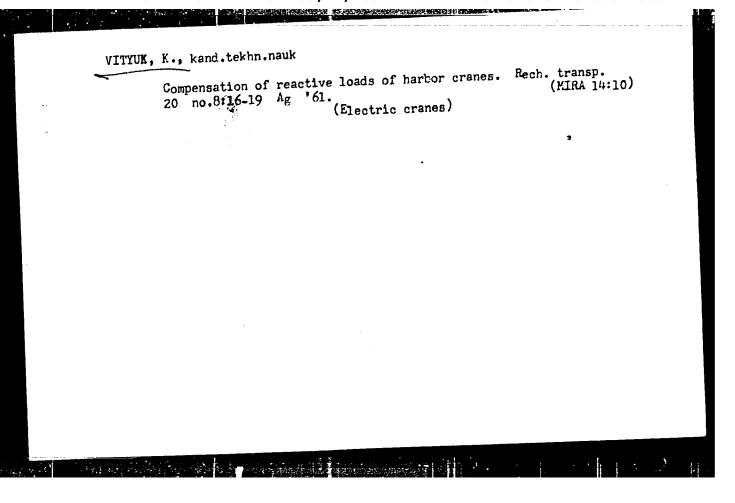
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Some data on the chemical composition of marine planktonic algae cultivated under artificial and natural illumination. Trudy SBS 17:346-350 164. (MIRA 18:6)







VITYUK, K.T., kand.tekhn.nauk

Some problems of the most efficient use of using diesels in dieselelectric propeller units. Trudy LIIVI no.26:231-235 '9'.

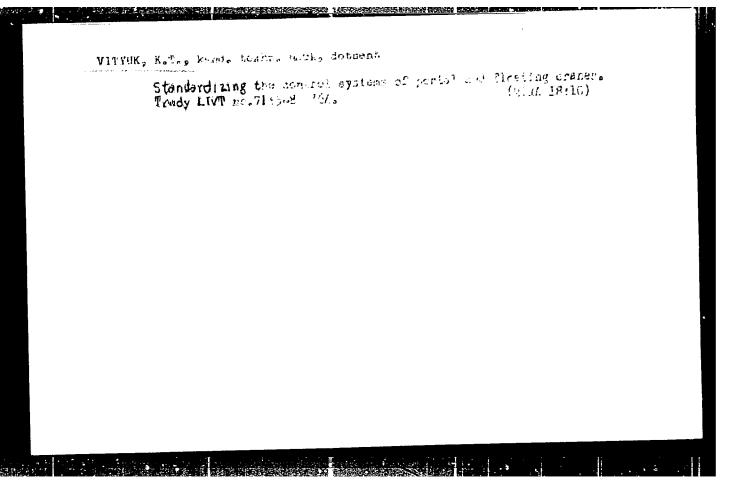
(MIRi 14:9)

(Ship propulsion) (Diesel engines)

VITTUK, K.T., dotsent, kand.tekhn.nauk

Determining the power on the terminals of electric motor according to the degree of loading of the actuating mechanism. according to the degree of loading of the actuating mechanism. Izv.vys.ucheb.zav.; energ. 3 no.5:54-59 My '60. (MIRA 13:6)

1. Leningradskiy institut vodnogo transporta. Predstavlena kafedroy elektrifikatsii promyshlennykh predpriyatiy i ustanovok. (Electric motors)



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"Automatic regulation of the power circuit of diesel electric paddle-wheel mechanisms of inland shipping vessels." Min River Fleet USSR. Leningrad Inst of Water Transport Engineers. Leningrad, 1956. (Dissertation for the Degree of Candidate in Technical Sciences).

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(Boilers, Marine) (Automatic control)

KOVALENKO, G.D., agronom po zashchite rasteniy (Cheskasskiy rayon);
TSURA, A.A., agronom po zashchite rasteniy (Chigirinskiy rayon,
Cherkasskoy oblasti); YITYUK, S.A., agronom po zashchite rasteniy
(Idtinskiy rayon, Vinnitskaya obl.); HRUNNER, Yu.N., kand.biolog.
nauk (Poltava); KRUGLOVA, M.G., agronom po zashchite rasteniy
(Poltava)

From the practices in controlling the pea weevil. Zashch.rast.ot vred. i bol. 7 no.4:9-13 Ap *62. (MIRA 15:12) (Pez weevil—Extermination)

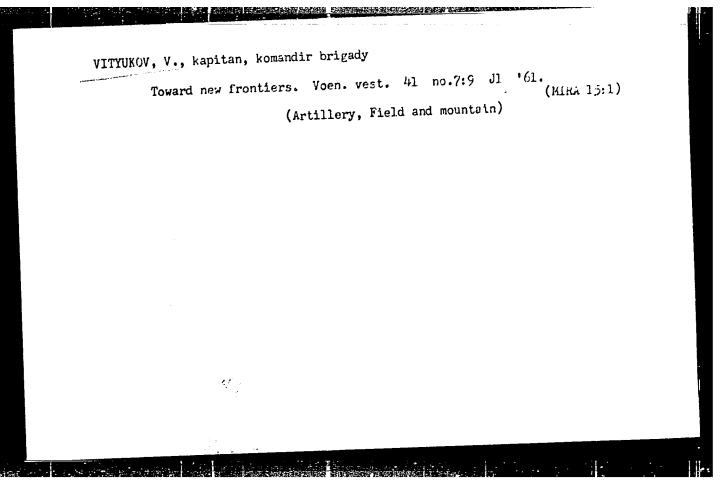
VITYUK, S.A., agronom po zashchite rasteniy

Organize the protection of private orchards. Zashch.rast.ot vred.

1 bol. 3 no.6:28-29 N-D '58.

1.Litinskaya mashinno-traktornaya stantsiya, Vinnitskaya oblast'.

(Fruit--Diseases and pests) (Spraying and dusting)



	AVAILABEL: Library of Congress	Sythekly, A.D. Seimle Observations in Miray,	55	San'to, P.K. Magnetic Field in the Aegion of Kirny?	Torotherich, Ye.S. Biogeographic Operation	Inrotherich, Is. 1 Ice Regime of Ocean	Typein_Bil., i.R. Dolembin, A.F. Espites / H.M. Hodel'.	Orney, A.M., and W.P. Rusin. Met.	in the sore interesting treas the three cases of Griston, I brypliki Island, and a restri- geographic, and geographic of and at the Finnershy's and Co	are between 74 to 119% loads allien acrass bilmsters), to allien scrats bilmsters), to applicable to local conditions astumated beaucast of the	COTILIZE: This book is Tolume 4 of Completed by the First Soriet 57), sent out under the amplication (Assistant (Assistant Soriet Complete Soriet (Assistant Complete Soriet C	PURPOSE: This book is invended for po setworologists, and grophysicists.	Ed.: N.M. Somow, Doctor of Geogra	Sponsoring Agency: Arkticheskly 1	Perways kontinentalinans eteredite Continental Expedition, 1955-1967-1959, 16 Whorshop transport, 1959, 16 Natarialy, tom 2)	Sevetskaya antarkticheskaya ekspeditsiya, 1955-			
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VITIUTNEV, O.I., inzh.

Supply cars with brake platforms. Bezop.truda v prom. 1 no.10:33-34 (MIRA 10:11)

O'57.

1. Dzhezkazganskoye rudoupravleniye. (Conveying machinery)

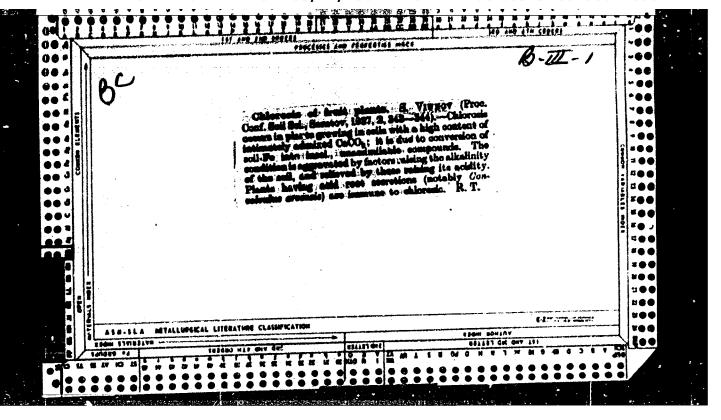
VITYUTNEV, P.I., gornyy tekhnik.

Our complaints about electric lecomotive designers. Bezop.truda
v prom. 1 no.8:38 Ag '57. (MLRA 10:8)

1.Dzhezkazganskoye rudoupravleniye.
(Blectric lecomotives)

SHINKARENKO, M.I., inzh.; VITZON, A.A., inzh.

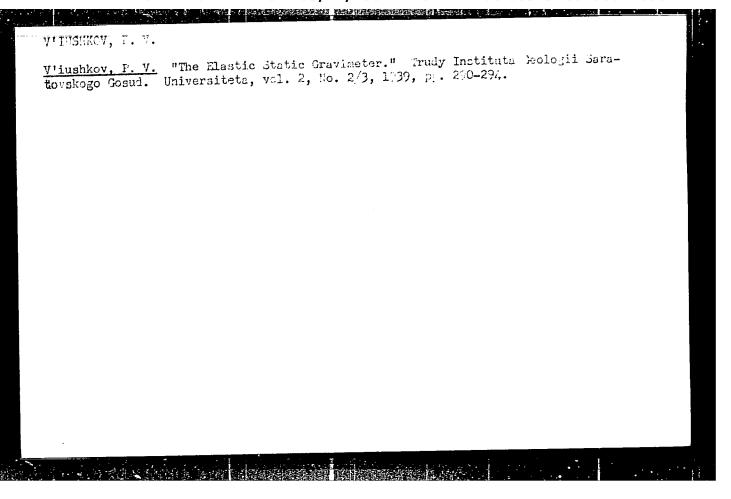
Modernization of rolling mills. Mashinostroenie no.2:28-29
(MIRA 18:6)
Mr.Ap '65.



SVYATUKHIN, M.V.; BODAREV, A.A.; VIUNSKOVSKIY, D.N.

CALL CONTROL OF THE PROPERTY O

Effect of dextran on the development of edema in burned tissues and on hemoconcentration in extensive burns. Probl. gemat. i perel. krovi 5 no. 4:39-44 Ap '60. (MIRA 14:1) (BURNS AND SCALDS)



VIVADA, Marjan.

"The Yugoslav trade unions are coming out for international solidarity." Vsem.prof.dvizh. no.4:9 Ap '56. (MIRA 9:8)

1. Chlen sekretariat TSentral'nogo soveta Soyuza profsoyuzov Yugoslvii, na IV s"yezde Vseobshchey ital'yanskoy konfederatsii truda!

(Yugoslavia--Trade unions)

VIVAL'EO, I.G.

Effect of erganic and mineral fertilizers on the crop, accumulation and yield of rubber, of kek-saghyz. Dep.AN URSR no.3:51-58 149.

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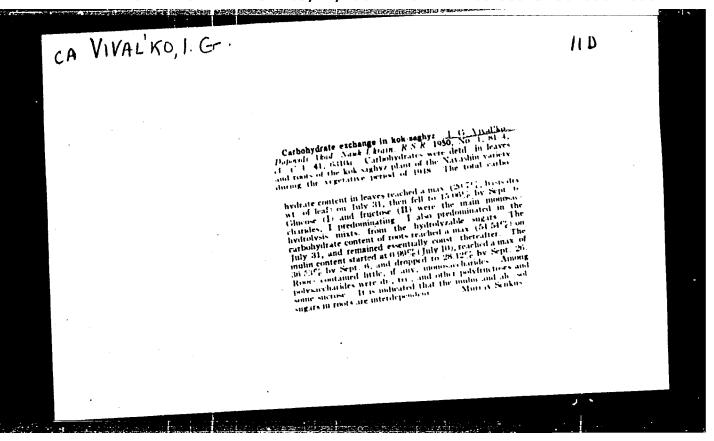
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(Kek-Saghyz)

VIVALKO, I. G.; SHILOV, YE. A.; YASNIKOV, A. A.

"Mechanism of rubber and carotene biosynthesis. "

report submitted for the TUPAC 2nd International Symposium on the Chemistry of Natural products, Prague, Czech., 27 Aug - 2 Sep 62



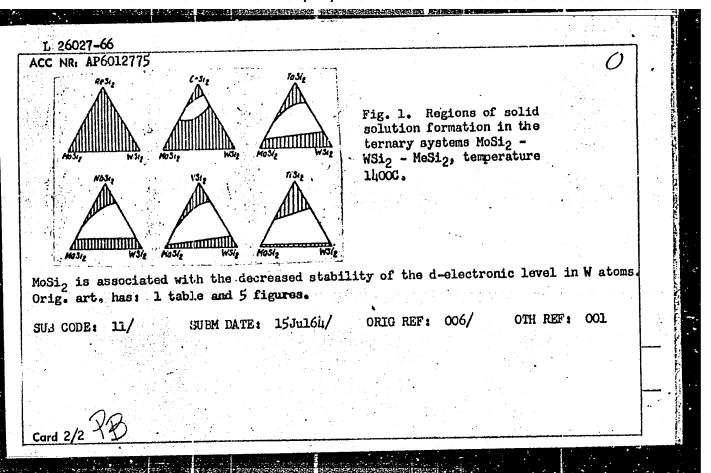
 VIVAL'KO, I.G.; KOVALENKO, G.P.; LEPPIK, L.A.

Effect of various nitrogen fertilizers on the increase of flax productivity. Dep.AN URSR no.6:556-559 155. (MIRA 9:7)

1.Institut fiziologii roslin ta agrokhimii AH URSR. Predstaviv diysniy chlen AN URSR O.I.Dushechkin.
(Ukraine--Flax) (Fertilizers and mamures)

VIVAL'NYUK, L. N. Cand Phys-Math Sci -- (diss) "Significance of the activity of a professor of the University of Kiev, Academician D. A. Grave, in the development of algebra in the Soviet Union." Kiev, 1960, 14 pp, (Society of the Scientific Council of the Institutes of Mathematics, Physics, and the Physics of Metals of the Acad Sci ULSSR), 250 copies, (KL, 31-60, 140)

Counce: Poroshkovaya metallurgiya, no. 4, 1966, 69-73 Counce: Por	26027-66 FWT(11) JI/JO SOURCE CODE: UR/0226/66/000/00h/00169/0073 C NR. AF6012775 SOURCE CODE: UR/0226/66/000/00h/00169/0073 THORS: Verkhoglyadova, T. S. (deceased); Vivchar, O. I.; Cladyshevskiy, Ye. I.	,
OURCE: Poroshkovaya metallurgiya, no. 4, 1966, 69-73 OPIC TAGS: molybdenum compound, tungsten compound, transition element, phase diagram ABSTRACT: The phase diagrams of the binary systems MoSi ₂ - ReSi ₂ and WSi ₂ - ReSi ₂ and the ternary system MoSi ₂ - WSi ₂ - MeSi ₂ (where Me = Ti, V, Nb, Ta, or Cr) were also the ternary system MoSi ₂ - WSi ₂ - MeSi ₂ (where Me = Ti, V, Nb, Ta, or Cr) were determined. The nature of the solid phase was determined by x-ray and microstructural methods. The experimental results are presented in graphs and tables (see Fig. 1). The system MoSi ₂ - ReSi ₂ exhibits a continuous series of solid solutions, and the systems WSi ₂ - ReSi ₂ and MoSi ₂ - WSi ₂ - ReSi ₂ show unlimited reciprocal solubility.	G: Institute for the Study of Materials, AN UKrSSR (Institut problem terialovadeniya AN UKrSSR); L'vov State University im. I. Franko (L'vovskiy gudarstvennyy universitet)	
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Our work in improving health conditions at farms in which brucellosis was prevalent. Veterinariia 29 no. 3:31 Mr 152.

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